

SUMMARY OF CHANGES for the Science COMMITTEE

SUMMARY OF CHANGES for the 2016-2017 CALENDAR

Academic Unit: Anthropology

List new and newly-created programs (and include separate New Program Form for each one):	
No new programs	
List closed programs (and include separate Program Closure Form for each one):	
No deleted programs	
If you are deleting one of your own courses from your program(s) and substituting a course from ANOTHER department or program, OR if you are altering the required courses from another department in your program(s), your unit's representative may be asked to explain this substitution and supply a letter of consent from that other department or program at the Curriculum Committee meeting.	
Note other significant program changes (but not minor "housekeeping" changes, such as substituting one of your own courses for another, etc.)	
No changed programs	
List new course numbers and titles (and enclose separate New Course Form for each one)	
New Course Number (e.g., SWE 209Y1) Title (e.g., Swedish Novellas)	
ANT338H1	Molecular Anthropology and Human Evolution
List deleted course numbers and titles. Please note that if you are deleting several more courses than you are adding, your unit's representative may be asked to discuss this at the Curriculum Committee meeting.	
No deleted courses	
Course renumberings and Course reweightings (Y1 to H1 or H1 to Y1)	
No course renumberings or reweightings	
Title Changes	
No title changes	

SUMMARY OF CHANGES for the Science COMMITTEE

New Course Form: ANT338H1

Designator	Number + Y1/H1	Course Title	L / S / P / T		
ANT	338H1	Molecular Anthropology and Human Evolution	[24L/12P]		
Course description--50 words maximum (text will be edited if too long). Please use present tense.					
Molecular anthropology is an interdisciplinary field combining biology, genetics, evolution and anthropology. In this class, we will explore the use of DNA for the study of past migrations and admixture patterns, the evolution of pathogens, plant and animal domestication and especially the relationships between recent and archaic humans.					
Prerequisite:	ANT203Y1				
Corequisite:					
Exclusion:					
Recommended Preparation:					
Competencies: Which (one or more) of the five competencies would this course help the students to develop? Please indicate in the relevant box whether it would be Some , Much or All .					
	Critical and Creative Thinking	Communication	Information Literacy	Quantitative Reasoning	Social and Ethical Responsibility
Level (None, Notably or Extensively)	Notably	Slightly	Notably	Notably	None
Research or other experiential learning: Does this course include a research or other experiential learning component? If yes, indicate with R or O, and whether Some, Much or All.					
	Research		Other Experiential Learning		
Level (None, Notably or Extensively)	None		None		
Also, if the course includes other experiential learning, please specify the nature of the learning					
<ul style="list-style-type: none"> Distinctive Practicals or Laboratories 					
OLD Distribution Requirement Status: underline the appropriate category. If uncertain, please email kelly@artsci.utoronto.ca .					
Distribution Requirement Status: This is a Science course					
NEW Breadth Requirement Status: Specify in which one or two categories this course would fall. Note: An H course must be designated as 0.5 FCE breadth credit in exactly one category; a Y course can be designated as either 1.0 FCE breadth credit in exactly one category or 0.5 FCE breadth credit in each of exactly two categories. Academic units are expected to categorize all their courses unless there are pedagogical reasons not to do so.					
Breadth Requirement: Living Things and Their Environment (4)					
Abbreviated Course Title for ROSI (not more than 20 characters including spaces):					
Molecular Anthropol					
Academic Relevance: State the reason for creating the course, and its place in your program(s):					
Provides an introduction to molecular anthropology for the Anthropology (Biological) Major and Archaeology (Specialist) programs.					
Overlap: If course content overlaps with current courses offered by other departments/programs, you MUST include a letter from these units agreeing to your proposal. Please indicate departments consulted below.					
Programs of Study: Name programs for which the course might be suitable. (PLEASE SEND A COPY OF YOUR PROPOSAL TO THESE PROGRAMS).					
Enrolment: State an estimated number, and limitation if any.				30-40; limit of 50	
"Revived" Courses: If listed previously, state last session it appeared in the Calendar:					
Instructor: If not a permanent appointment in the University, his/her name and appointment are required:					
NEW COURSES MUST BE APPROVED BY CHAIR OR PROGRAM DIRECTOR					
Departmental/College resource implications for this new course: the Dean's Office requires a description of the resource requirements for this new course, and an indication whether you can meet these requirements through your existing resources, or have received additional resources from the Dean. Please give details of the resource areas below.					
Instructor(s):	Prof. Bence Viola				
Teaching Assistant(s):	As appropriate according to the formula				
Laboratory Equipment:					
Computing Resources:					
Other:					

New Course Form: ANT338H1

I will provide these resources from my existing budget.

DATE: Feb 5, 2016

Approved by CHAIR/PROGRAM DIRECTOR? Yes

SUMMARY OF CHANGES for the Science COMMITTEE

SUMMARY OF CHANGES for the 2016-2017 CALENDAR

Academic Unit: Computer Science

List new and newly-created programs (and include separate New Program Form for each one):	
No new programs	
List closed programs (and include separate Program Closure Form for each one):	
No deleted programs	
If you are deleting one of your own courses from your program(s) and substituting a course from ANOTHER department or program, OR if you are altering the required courses from another department in your program(s), your unit's representative may be asked to explain this substitution and supply a letter of consent from that other department or program at the Curriculum Committee meeting.	
Note other significant program changes (but not minor "housekeeping" changes, such as substituting one of your own courses for another, etc.)	
No changed programs	
List new course numbers and titles (and enclose separate New Course Form for each one)	
New Course Number (e.g., SWE 209Y1) Title (e.g., Swedish Novellas)	
CSC396Y0	Designing Systems for Real World Problems

New Course Form: CSC396Y0

Designator	Number + Y1/H1	Course Title	L / S / P / T		
CSC	396Y0	Designing Systems for Real World Problems	[TBA]		
Course description --50 words maximum (text will be edited if too long). Please use present tense.					
This Summer Abroad special offering provides students with an opportunity to explore new environments, which improves their ability to see their own world with increased sensitivity and germinates new design ideas. In this course, students will identify a real problem in the world and work in groups on projects addressing this problem. Students will explore their problem space and the people within that space, identify needs, constraints, and requirements, and ultimately design solution. Their designs will be iterated by gathering feedback and usability testing the early prototypes. The course projects will culminate with development of a technological solution that addresses the identified problem. Final project presentations will take place at the end of the course. Not eligible for CR/NCR.					
Prerequisite:	Any CSC half course, and balloting				
Corequisite:					
Exclusion:					
Recommended Preparation:					
Competencies: Which (one or more) of the five competencies would this course help the students to develop? Please indicate in the relevant box whether it would be Some , Much or All .					
	Critical and Creative Thinking	Communication	Information Literacy	Quantitative Reasoning	Social and Ethical Responsibility
Level (None, Notably or Extensively)	None	None	None	None	None
Research or other experiential learning: Does this course include a research or other experiential learning component? If yes, indicate with R or O, and whether Some, Much or All.					
	Research			Other Experiential Learning	
Level (None, Notably or Extensively)	None			Notably	
Also, if the course includes other experiential learning, please specify the nature of the learning					
<ul style="list-style-type: none"> • International Experience • Study Abroad 					
OLD Distribution Requirement Status: underline the appropriate category. If uncertain, please email kelly@artsci.utoronto.ca .					
Distribution Requirement Status: This is a Science course					

New Course Form: CSC396Y0

NEW Breadth Requirement Status: Specify in which **one** or **two** categories this course would fall. Note: An H course must be designated as 0.5 FCE breadth credit in exactly **one** category; a Y course can be designated as either 1.0 FCE breadth credit in exactly **one** category or 0.5 FCE breadth credit in each of exactly **two** categories. Academic units are expected to categorize all their courses unless there are pedagogical reasons not to do so.

Breadth Requirement: The Physical and Mathematical Universes (5)

Abbreviated Course Title for ROSI (not more than 20 characters including spaces):

Designing Systems fo

Academic Relevance: State the reason for creating the course, and its place in your program(s):

Provides a full-year Summer Abroad option for students in CS programs, or interested in applying CS more broadly

Overlap: If course content overlaps with current courses offered by other departments/programs, you **MUST** include a letter from these units agreeing to your proposal. Please indicate departments consulted below.

Programs of Study: Name programs for which the course might be suitable. (PLEASE SEND A COPY OF YOUR PROPOSAL TO THESE PROGRAMS).

Enrolment: State an estimated number, and limitation if any.

TBD by Summer Abroad office

"Revived" Courses: If listed previously, state last session it appeared in the Calendar:

Instructor: If not a permanent appointment in the University, his/her name and appointment are required:

Ilona Posner, SL

NEW COURSES MUST BE APPROVED BY CHAIR OR PROGRAM DIRECTOR

Departmental/College resource implications for this new course: the Dean's Office requires a description of the resource requirements for this new course, and an indication whether you can meet these requirements through your existing resources, or have received additional resources from the Dean. Please give details of the resource areas below.

Instructor(s): Ilona Posner

Teaching Assistant(s): n/a

Laboratory Equipment: none

Computing Resources: none

Other: Support through WDW Summer Abroad office

I will provide these resources from my existing budget.

DATE: Feb 5, 2016

Approved by CHAIR/PROGRAM DIRECTOR? Yes

SUMMARY OF CHANGES for the Science COMMITTEE

SUMMARY OF CHANGES for the 2016-2017 CALENDAR

Academic Unit: Physics

List new and newly-created programs (and include separate New Program Form for each one):	
No new programs	
List closed programs (and include separate Program Closure Form for each one):	
No deleted programs	
If you are deleting one of your own courses from your program(s) and substituting a course from ANOTHER department or program, OR if you are altering the required courses from another department in your program(s), your unit's representative may be asked to explain this substitution and supply a letter of consent from that other department or program at the Curriculum Committee meeting.	
Note other significant program changes (but not minor "housekeeping" changes, such as substituting one of your own courses for another, etc.)	
No changed programs	
List new course numbers and titles (and enclose separate New Course Form for each one)	
No new courses	
List deleted course numbers and titles. Please note that if you are deleting several more courses than you are adding, your unit's representative may be asked to discuss this at the Curriculum Committee meeting.	
Deleted Course Number (e.g., SWE 209Y1)	Title (e.g., Swedish Novellas)
none	

Course renumberings and Course reweightings (Y1 to H1 or H1 to Y1)			
Old number/weight		Proposed number/weight	
PHY189H1		PHY289H1	
Title Changes			
Course Code	New Title	New ROSI Title (max. 20 characters including spaces)	
PHY485H1	Advanced Optical Physics	Laser Physics	Laser Physics

1. Course Number Change:

Title: Physics at the Cutting Edge

Old Course Number: PHY189H

New Course Number: PHY289H

Rationale: The course title, content and level will remain the same. This is a limited enrolment (26 students) seminar course for First Year Science students interested in current research in Physics. It is not a required course for any program nor a pre-requisite for any other course. The co-requisite for this course is PHY132S/152S. It is a winter (S) course.

The original intention of the course was to provide the most keen and interested 1st year students a chance to learn about the hot topics in physics and interact with current researchers in the field. For example, we have several of our colloquium speakers meet with the students to give them preliminary introductions to the colloquium topic for that week. The students also attend the Physics colloquium. We don't have time to cover these hot topics in the core 1st year physics courses which focus on core fundamentals which is why we created this course ~ 10 years ago.

However, what happens in practice is that the combination of the limited enrolment + the lack of ability to put enrolment restrictions on first year courses means that a random selection of 26 students take this course. Since the course focuses on discussion and participation, this tends to produce less than ideal results. Our request is to change the course number to a 200-level course and then impose a "Permission of Undergraduate Chair" enrolment control. We will have interested students submit applications in mid-Fall to gain access to the course. The Undergraduate Chair, in consultation with the Course Instructor, will then select the 26 individuals to take the course. Selection will be based on a combination of their stated interest and enthusiasm for the material and their background knowledge as demonstrated through their performance in the Fall semester physics course or other related high-school experience. The course will be advertised to students in the Fall semester in PHY131/151 (our first year core physics courses). We don't expect that the change to a second year course number will suddenly cause many second year physics students to be interested in this course because the 2nd year physics programs are quite packed and the students likely won't have room in their schedules for this non-required course. However, we may consider 2nd year students if they apply but give a preference to 1st year students.

I should note that we considered other possible solutions to this issue, such as increasing the course cap, but the style of the course really requires a small group experience so we feel that the 26 student cap is necessary.

2. Course Title Change:

Course Number: PHY485H:

Old Title: "Advanced Classical Optics"

New Title: "Laser Physics"

Rationale: This title better reflects the course content and is also more accessible and understandable to students. We expect this course will therefore attract broader interest than the esoteric "advanced classical optics" title. The course content is not changing.

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SUMMARY OF CHANGES for the 2016-2017 CALENDAR

Academic Unit: University College

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No new programs
List closed programs (and include separate Program Closure Form for each one):
No deleted programs
If you are deleting one of your own courses from your program(s) and substituting a course from ANOTHER department or program, OR if you are altering the required courses from another department in your program(s), your unit's representative may be asked to explain this substitution and supply a letter of consent from that other department or program at the Curriculum Committee meeting.
Note other significant program changes (but not minor "housekeeping" changes, such as substituting one of your own courses for another, etc.)
• Cognitive Science (Science Program) Major - change in admission requirements
List new course numbers and titles (and enclose separate New Course Form for each one)
No new courses
List deleted course numbers and titles. Please note that if you are deleting several more courses than you are adding, your unit's representative may be asked to discuss this at the Curriculum Committee meeting.
No deleted courses
Course renumberings and Course reweightings (Y1 to H1 or H1 to Y1)
No course renumberings or reweightings
Title Changes
No title changes

OLD REQUIREMENTS:

Cognitive Science (Science Program) Major (8 FCE)

This is a Type 2 program. Enrolment is limited and admission requires the completion of one course from the list of first year courses below.

Note that some Computer Science courses included below under Streams 1 and 2 have unlisted co- or prerequisites. Please consult the Faculty of Arts and Science Course Calendar. Those interested in the Science Major are advised to consider also registering for a Computer Science Specialist, Major, or Minor (for Stream 1) or a Human Biology Neuroscience Specialist or Major (for Stream 2).

First Year:

[CSC108H1](#); [CSC148H1](#); [MAT135H1](#) and [MAT136H1](#) (or [MAT137Y1](#)); [COG250Y1](#) (may be taken as a corequisite in Year 2)

NEW REQUIREMENTS:

Cognitive Science (Science Program) Major

(8 FCE)

This is a Type 2 program. Enrolment is limited and admission requires the completion of either [COG250Y1](#), or a combination of 1.5 FCE in CSC, LIN, PHL, PSY (no more than 1 FCE from a single department). Please note that meeting the minimum admission requirements does not guarantee one a spot in any one of our programs, depending on the number of program spaces available.

Note that some Computer Science courses included below under Streams 1 and 2 have unlisted co- or prerequisites. Please consult the Faculty of Arts and Science Course Calendar. Those interested in the Science Major are advised to consider also registering for a Computer Science Specialist, Major, or Minor (for Stream 1) or a Human Biology Neuroscience Specialist or Major (for Stream 2).

First Year:

[CSC108H1/CSC120H1](#) (recommended option); [CSC148H1](#); [MAT135H1](#) and [MAT136H1](#) (or [MAT137Y1](#)); [COG250Y1](#) (may be taken as a corequisite in Year 2)

University of Toronto

Major Modification Proposal: Combined Degree Programs

Combined Degree Programs Proposed:						
	Campus	Undergraduate Program Option	Undergrad Degree	Second Entry Undergraduate Degree Program	Graduate Degree and Program (#1)	Graduate Degree and Program (#2)
1.	FAS/OISE	Minor in Education and Society; Major in English	Honours Bachelor of Science (H.B.Sc.) or Honours Bachelor of Arts (H.BA)		Master of Teaching (MT), Teaching	
2.	FAS/OISE	Minor in Education and Society; Major in History	Honours Bachelor of Science (H.B.Sc.) or Honours Bachelor of Arts (H.BA)		Master of Teaching (MT)	
3.	FAS/OISE	Minor in Education and Society; Major in Mathematics	Honours Bachelor of Science (H.B.Sc.) or Honours Bachelor of Arts (H.BA)		Master of Teaching (MT)	
4.	FAS/OISE	Minor in Education and Society; Major in Psychology	Honours Bachelor of Science (H.B.Sc.) or Honours Bachelor of Arts (H.BA)		Master of Teaching (MT)	
5.	FAS/OISE	Minor in Education and Society; Major in Sociology	Honours Bachelor of Science (H.B.Sc.) or Honours Bachelor of Arts (H.BA)		Master of Teaching (MT)	

Faculty(s):	Faculty of Arts and Science (FAS) Ontario Institute for Studies in Education (OISE)
Dean's Office Contact in both Faculties:	<ul style="list-style-type: none"> • Joshua Barker, Vice-Dean, Graduate Education & Program Reviews, FAS • Poppy Lockwood, Acting Associate Dean, Undergraduate, FAS • Teresa Nicoletti , Administrative Coordinator teresa.nicoletti@utoronto.ca • Douglas McDougall, Professor & Associate Dean, Programs, OISE • Biljana Cuckovic, Assistant to the Dean, Policy & Planning biljana.cuckovic@utoronto.ca
Department(s) / Unit(s) (if applicable):	<ul style="list-style-type: none"> • Victoria College • Department of English • Department of History • Department of Mathematics • Department of Psychology • Department of Sociology • Department of Curriculum, Teaching, and Learning, OISE
Proponent in each Department / Unit:	<ul style="list-style-type: none"> • Angela Esterhammer, Principal, Victoria College • Undergraduate Chair in each of the participating departments, Faculty of Arts and Science • Jim Hewitt, Acting Chair, Department of Curriculum, Teaching and Learning
Version Date of Proposal (<i>please change as you edit proposal</i>):	January 28 , 2016

1 Summary

This is a proposal to create 5 Combined Degree Programs combining programs that involve either the Honours Bachelor of Science (H.B.Sc.) or Honours Bachelor of Arts (H.B.A.) and Master of Teaching (MT). Every combination of degree programs is understood as a unique Combined Degree Program, thus this proposal an omnibus proposal for 5 distinct CDPs. The following undergraduate program options at the Faculty of Arts and Science may be in combination with the MT:

1) Minor in Education and Society offered by the Faculty of Arts and Science in association with Victoria College (critical undergraduate element that will be part of each combined degree program).

The Minor in Education and Society allows students interested in education to explore topics such as child and adolescent development, equity and diversity in education, communication and conflict resolution; get hands-on experience in classrooms through local placements and international internships; and gain strong background for admission to a graduate teacher education program.

2) And any one of the following major programs:

- Major in English
- Major in History
- Major in Mathematics
- Major in Psychology
- Major in Sociology

3) Students must also enrol in one additional minor program which will allow them to complete both the requirements for their undergraduate degree, and the requirements for their second teaching subjects. Therefore all CDP students must complete one Major and 2 Minors at the undergraduate level.

The formal name of the Combined Degree programs approved in governance will be:

- Combined Degree Program: STG, Honours Bachelor of Arts, Major in English/Master of Teaching
- Combined Degree Program: STG, Honours Bachelor of Arts, Major in History/Master of Teaching
- Combined Degree Program: STG, Honours Bachelor of Science, Major in Mathematics/Master of Teaching
- Combined Degree Program: STG, Honours Bachelor of Science, Major in Psychology/Master of Teaching
- Combined Degree program: STG, Honours Bachelor of Arts, Major in Sociology/Master of Teaching

All above listed undergraduate minor and major programs and the MT are existing University of Toronto programs.

The Minor in Education and Society allows students interested in education to explore topics such as

child and adolescent development, equity and diversity in education, communication and conflict resolution; get hands-on experience in classrooms through local placements and international internships; and gain strong background for admission to a graduate teacher education program.

This Combined Degree Program requires that students applying to the MT have two teaching subjects regardless of the concentration they are applying to (i.e. Intermediate/Senior, Junior/Intermediate or Primary/Junior). This means that they are required to have six full-year university courses (6.0 FCE) in the first teaching subject, and a minimum of three full-year courses in the second teaching subject (3.0 FCE). Note: French as a Second Language, International Languages and Science subjects require more than 3 full-year university courses. The table below presents the teaching subject associated with each program of study. The major will be the first (a minimum of 6.0 FCE) teaching subject in each combination

<i>Program of Study</i>	<i>Teaching Subjects completed with required courses</i>
Major in English	English
Major in History	History
Major in Mathematics	Mathematics
Major in Psychology	Social Science – General
Major in Sociology	Social Science – General

The following additional minor programs are recommended:

- Major in English, with a minor in History, Psychology, Sociology, Anthropology or Math
- Major in History, with a minor in English, Psychology, Sociology, Anthropology or Math
- Major in Mathematics, with a minor in English, Psychology, Sociology, Anthropology or History
- Major in Psychology, with a minor in English, History or Math
- Major in Sociology, with a minor in English, History, or Math

Students will be carefully advised to ensure that they fulfil teaching subject requirements when selecting their additional minor programs (in addition to the Education and Society minor and one of the above listed five major programs). In addition to the Teaching Subjects Prerequisites for Intermediate/Senior Candidates in the MT (see Appendix A), OISE will develop comprehensive guidelines that will assist the Combined Degree Program students in making decisions regarding selecting additional Minor programs that will help them meet the prerequisites for their second teaching subjects.

The Master of Teaching program is a full-time professional program of education that leads to a master degree and eligibility to become a certified teacher in Ontario.

Once approved by both Faculty Councils, the Combined Degree Programs being brought forward in this proposal will provide students with the opportunity to gain early (conditional) graduate admission (in Year 3 of undergraduate study), a clear pathway towards the teaching profession, and access to an enriched combination of academic programs. For example, the above-mentioned undergraduate minor program in Education and Society provide the students interested in applying to the Combined Degree Program an exceptional content background required for teaching

preparation. This includes education focused courses in child and adolescent development, equity and diversity and communication and conflict resolution in education coupled with an internship experience in educational settings such as schools or community organizations, etc.

Students who successfully complete the Combined Degree Program, will have earned two University of Toronto degrees (i.e. H.B.Sc. or H.BA and MT), and be recommended to the Ontario College of Teachers for a Certificate of Qualification, which certifies them to teach in Ontario schools.

Currently, students who are interested at the outset of their undergraduate studies in pursuing a degree in teacher education have applied to and registered in one of the existing Concurrent Teacher Education programs (CTEP). With the restructuring of teacher education in the Province, and the move from a one year to a two-year program for teacher education, these programs have been closed to new admissions. In their place, the Faculty of Arts and Science and OISE are bringing forward the proposed Combined Degree Program that builds on Victoria College's and OISE's long standing partnership in teacher education.

2 Effective Date: September 2016

- First date students will apply to the Combined Degree Program: **April 2016**
- The date the first cohort will be registered in the Combined Degree Program: **September 2016**
- First year CDP students will be unconditionally in the Graduate Degree Program (where applicable): **September 2017**

3 Academic Rationale

The Ontario Government has confirmed that, commencing in September 2015, a two-year B.Ed. program will replace the current one year B.Ed. programs in the Province. As the B.Ed. within CTEP is the equivalent of a one-year program, the University of Toronto has ceased admission into CTEP. All Students currently registered in CTEP programs are expected to graduate in June 2018.

OISE has explored possibilities to continue and build on the fruitful collaboration in teacher education that it has maintained with its undergraduate partners. The proposed Combined Degree Program, H.B.Sc. or H.BA/Master of Teaching builds on that collaboration, and is intended to allow students interested in the teaching profession to apply to the master's program in Year 3 of undergraduate study, get an excellent foundation in a range of educational issues and teaching strategies combined with a deep knowledge of curriculum and research with an opportunity to develop as teacher-researchers ready to both engage in classrooms and/or continue their academic career through doctoral study.

A Combined Degree Program (CDP) is a program category that allows a student to be registered in two approved degree programs at the same time and complete the requirements of both in a manner that provides a benefit to the student beyond what would result from completing the two degree programs separately. The Combined Degree Program offers several advantages to students. The Vic One Egerton Ryerson Stream, which is the Education Stream for Year 1 Students

(recommended) and the Education and Society Minor provide enriched background preparation for graduate studies in Education. Students will benefit from the additional focus and direction offered by conditional early admission to the MT. By taking 1.0 FCE in the MT at OISE in their fourth year, they will be integrated into graduate study earlier and have fewer required courses to complete during their two years of graduate-only study, thus allowing additional time for independent research or optional areas of specialization.

As a graduate teacher education program, the MT will provide students with a broader range of career options in Canada and internationally (not only in the school system but also in public or private sectors including health care, governmental and non-governmental organizations, business and community). For example, MT graduates are eligible to apply for admission to doctoral programs in education at OISE, other Ontario universities, as well as at leading universities in Canada and around the world.

Owing to their intensive exposure to courses and practical experiences that explore general issues in education and also develop strong subject matter knowledge in their areas of study, students enrolled in the Education and Society minor program and any one of the above listed major programs are ideally suited to a Combined Degree Program with the Master of Teaching (MT) program.

4 Need and Demand

The existing CTEP programs have admitted up to 160 students per year distributed across six partner divisions. At the same time, demand for OISE's master's level teacher education programs has been increasing. For example, in 2014-2015, OISE had 862 applications for 262 places in the Master of Teaching program.

It is expected that the proposed Combined Degree Program will be popular with students as it will provide them with the opportunity to gain early (conditional) graduate admission, a clear academic pathway, and an enriched combination of academic programs that will support career success. Specifically, students in the Combined Degree Program will explore topics in education such as child and adolescent development and get hands-on experiences in classrooms, which are embedded in their undergraduate degree and represent an ideal preparation for a professional teacher education program at the graduate level.

Research shows that the quality of teaching is the most significant factor affecting student achievement, and its impact can directly be influenced by initial and continuing teacher education. Like other professions at the "human interface", such as psychology and speech pathology—through teacher education at a graduate level—we can educate teacher leaders and teacher researchers who are well prepared to use data to construct tailored interventions for individual students in diverse learning environments. The Master of Teaching program involves rigorous academic standards, high expectations for students, integrated, comprehensive and sophisticated learning outcomes. The Combined Bachelors/Master's program leading towards teaching certification will be unique in Ontario, and it is expected that it will be highly competitive and in high demand.

Students will be admitted to the MT on a competitive basis as part of the overarching MT target.

There will be no minimum or maximum number of students in the total MT enrolment target that may come from the Combined Degree Program.

5 Program Requirements

Students complete full academic program requirements for their selected applicable major and the second minor program while carrying a full course load of 5.0 FCE each year. All students must also enrol and complete the Minor in the Education and Society offered by Victoria College. Currently the requirements for the Minor are to complete 4.0 FCEs including at least 1.0 FCE at 300+ level,

1. [PSY100H1](#) (Introductory Psychology)
2. All of: [JSV200H1 \(Communication and Conflict Resolution in Education\)](#), [JSV201H1 \(Child and Adolescent Development in Education\)](#), [JSV202H1 \(Equity and Diversity in Education\)](#)
3. [VIC360H1/VIC360Y1](#) (Education Internship)
4. [VIC362H1](#) (Introduction to Teaching)
5. One FCE from: [VIC361H0](#), [VIC363H1](#) (A Study of Chinese Literature and Culture), a course related to Education and Society at the 300+ level selected from the offerings in Sociology, Anthropology or Geography (Arts). The requirement for the Minor in Education and Society Minor for students in one of the 5 Combined Degree Programs will include the same undergraduate courses as the current minor and requirement 5 will be completed through successful completion of the double counted graduate courses CTL7001H1, CTL7009H1

In Year 3, students interested in one of the Combined Degree Programs will apply to the Master of Teaching and the Combined Degree Program through the SGS Graduate Online Admission Application system. Successful students will be conditionally admitted into the Master of Teaching program and the Combined Degree Program. Graduate admission at this point, when the student has not yet completed the undergraduate degree program, is conditional. Once students have accepted a conditional offer of admission to the MT program, they are in the Combined Degree Program. During Year 4 of undergraduate study, they will be eligible to take 1.0 graduate FCE at OISE – CTL7001H (Educational Professionalism, Ethics and the Law) and CTL7009H (Anti-Discriminatory Education), in addition to completing the requirements of their undergraduate degree. The 1.0 graduate FCE will be graded as graduate courses, as per the UAGPP. The graduate courses double count both towards the undergraduate degree (satisfying degree requirements) and the Master of Teaching degree. Students who successfully complete the undergraduate degree program with appropriate grade standing (B+; CGPA of 3.3) and meet the other admission criteria of the MT will at this stage be admitted unconditionally to the MT. In Year 5, these students will continue in their graduate level studies following the normal path to completion with the exception of the two half courses they completed in Year 4. Students will complete the MT in the usual program length of 5 continuous sessions.

5.1 Comparison of Curricular Path

<i>The Programs Taken Separately</i>					<i>Combined Degree Program</i>					
		Term	FCE Requirements	Registration in ROSI/ACORN FT or PT		Term	FCE Requirements		Registration in ROSI/ACORN FT and / or PT	
							Degree 1	Degree 2		
FAS H.B.A. or H.B.Sc.	1st year	<i>f</i>	2.5	FT	1st year	<i>f</i>	2.5		FT	
		<i>w</i>	2.5	FT		<i>w</i>	2.5		FT	
		<i>s</i>				<i>s</i>				
	2nd year	<i>f</i>	2.5	FT	2nd year	<i>f</i>	2.5		FT	
		<i>w</i>	2.5	FT		<i>w</i>	2.5		FT	
		<i>s</i>				<i>s</i>				
	3rd year	<i>f</i>	2.5	FT	3rd year	<i>f</i>	2.5		FT	
		<i>w</i>	2.5	FT		<i>w</i>	2.5		FT	
		<i>s</i>				<i>s</i>				
	4th year	<i>f</i>	2.5	FT	4th year	<i>f</i>	2.0		FT	
		<i>w</i>	2.5	FT		<i>w</i>	2.0	1.0	FT	
		<i>s</i>				<i>s</i>				
MT	1st year	<i>f</i>	5.0	FT	5th year	<i>f</i>		3.5 or 4.0	FT	
		<i>w</i>		FT		<i>w</i>			1.5 or 2.0	FT
		<i>s</i>		FT		<i>s</i>				
	2nd year	<i>f</i>	5.0	FT	6th year	<i>f</i>		3.5 or 4.0	FT	
		<i>w</i>		FT		<i>w</i>				FT
		<i>s</i>				<i>s</i>				

6 Admission Process

Students in the third year of the H.B.Sc. or H.B.A. will be eligible to apply through the School of Graduate Studies Online Application System to the proposed Combined Degree Program. Students interested in the Combined Degree Program will apply during the Fall term of their Year 3, and if eligible, will receive a conditional offer of admission to the MT program by the end of the Winter term of their 3rd year in the undergraduate program.

For students to be given full, unconditional admission to the MT program, they must maintain at least a B+ (3.3) average in their final year or over senior courses; achieve a grade of at least B+ average in the 1.0 FCE graduate courses taken in Year 4; successfully complete the requirements for the H.B.Sc./H.B.A. program and have the degree conferred. If at the end of 4th year the student has not met the requirement of completing 6.0 FCEs in the first teaching subject and 3.0 FCEs in the second teaching subject, the offer of conditional admission to the Combined Degree Program will be rescinded. Students in this position could apply separately to the Master of Teacher outside of the Combined Degree Program.

7 Admission Requirements

The proposal for the Combined Degree Program does not affect the approved admission requirements for the H.B.Sc. or H.B.A. degree.

To be considered for conditional admission to the Master of Teaching and the Combined Degree Program, students must meet the following admission requirements:

1. Be enrolled in the Education and Society Minor Program at Victoria College.
2. Be registered in the 3rd year of the H.B.Sc. or H.B.A. Degree Program, in one of the above listed major programs.
3. Have completed—or be on the course to complete—the education-focused courses and practical experiences embedded in the undergraduate degree.
4. Have an average grade equivalent of at least B+ or better, normally demonstrated by an average grade in the 2nd year.
5. Provide at least two letters of reference.
6. Be on course to complete the prerequisites for two teaching subjects irrespective of whether they ultimately intended registering in the Intermediate/Senior, Junior/Intermediate or Primary/Junior concentration (Note: candidates must have completed at least half of the teaching subjects prerequisite courses [i.e. 3.0 FCE in 1st teaching subject, and 1.5 FCE in 2nd teaching subject] by the time they are conditionally admitted to the MT program, that is, by the 2nd term of 3rd year in the undergraduate program).
7. Meet other qualifications as specified by the MT program:
 - Applicants are admitted under the General Regulations of the School of Graduate Studies.
 - Applicants must also satisfy the Department of Curriculum, Teaching and Learning's additional admission requirements stated below.
 - Applicants must have an appropriate bachelor's degree with the equivalent of a University of Toronto B+ or better in the final year. Note: all students admitted to the MT via the Combined Degree Program must have a higher average grade requirement than that required for admission to the MT alone.
 - In their Statement of Intent, applicants should indicate their preferred concentration (i.e., Primary/ Junior, Junior/Intermediate, or Intermediate/Senior) and describe three significant teaching and/or teaching-related experiences that they have had, especially with groups of children. With reference to these experiences, applicants should identify insights gained about teaching and learning, and explain how, based on these insights, they might contribute to the education of students in today's schools. Included in their resumé, applicants are requested to list, in chart form, the extent of their teaching experiences. The chart should include dates, location of experience, role, and number of hours working with students.
 - A police record check is required in a practicum setting in both Year 1 and 2 of the program.

Note: all students must meet the requirements for two teaching subjects. In order to meet the admissions requirements for their two teaching subjects, applicants must be on the course to

completing the required number of prerequisite courses in each of their subject areas as part of their undergraduate studies. Specifically, applicants must have six full university courses (or equivalent) in their first teaching subject, and three full university courses (or equivalent) in their second teaching subject. Note: French as a Second Language, International Languages and Science subjects require more than 3 full-year university courses (see Appendix A).

Note: If at the end of 4th year the student has not met the requirement of completing 6.0 FCEs in the first teaching subject and 3.0 FCEs in the second teaching subject, the offer of conditional admission to the Combined Degree Program will be rescinded. Students in this position could apply separately to the Master of Teacher outside of the Combined Degree Program.

8 Calendar Copy

- *Please complete highlighted yellow section in the Graduate Calendar template below*

Every combination of degree programs is understood as a unique Combined Degree Program, thus this proposal an omnibus proposal for 5 distinct CDPs. Each combination will have a discreet SGS Calendar entry. The entry below is for the Combined Degree Program: STG, Honours Bachelor of Arts, Major in English/Master of Teaching. As each combination has the same admission and graduate program requirements, the entry below is representative of the different combinations.

2016-17 SGS Calendar

English (Major), Honours Bachelor of Arts / Master of Teaching

Overview

The **Combined Degree Program (CDP): Honours Bachelor of Arts, Major in English / Master of Teaching (MT)** is designed for students interested in studying the intersections of English and Education, coupled with professional teacher preparation.

Students earn an honour's bachelor's degree from the Faculty of Arts and Science and an accredited professional Master of Teaching (MT) degree at the Ontario Institute for Studies in Education (OISE). They will be recommended to the Ontario College of Teachers for an Ontario Teacher's Certificate of Qualifications as elementary or secondary school teachers. Distinct advantages include:

- early application to the MT program (in Year 3) and conditional admission to the MT program;
- eligibility for certification as a teacher in Ontario; and
- eligibility to apply for doctoral study.

This CDP permits the completion of both degrees in six years with a limited number of courses that may be counted towards both the undergraduate and graduate degrees (i.e., 1.0 full-course equivalent [FCE]).

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

English, HBA
Teaching, MT

Application Process

- Applicants apply to the HBA program, the MT program, and the CDP.

Requirements

Minimum Admission Requirements

- Applicants must have been admitted to the HBA degree program and the English major program.
- Applicants must meet the admission requirements of the School of Graduate Studies and the MT program.
- In addition, applicants to the MT program must have an average grade of at least B+ (3.3).
- Applicants must complete two undergraduate minors: one in Education and Society, and the second to fulfil the admission requirements for a second teaching subject as part of the MT.
- At least two letters of reference.
- Please see the contact information below to find details on each program's admission requirements.
- In their Statement of Intent, applicants should indicate their preferred concentration (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior) and describe three significant teaching and/or teaching-related experiences that they have had, especially with groups of children. With reference to these experiences, applicants should identify insights gained about teaching and learning, and explain how, based on these insights, they might contribute to the education of students in today's schools. Included in their resumé, applicants are requested to list, in chart form, the extent of their teaching experiences. The chart should include dates, location of experience, role, and number of hours working with students.
- Applicants to each concentration will have completed a minimum of 6.0 full-course equivalents (FCEs) as part of the English major requirements in the first teaching subject, and a minimum of 3.0 FCEs in the second teaching subject, from a recognized university. The 22 eligible teaching subjects are:
 - Business studies: accounting, general
 - Dramatic arts
 - English
 - French as a second language
 - Geography
 - Health and physical education
 - History
 - International languages: German, Italian, Spanish, other
 - Mathematics
 - Music: instrumental, vocal
 - Religious education
 - Science: biology, chemistry, physics, general
 - Social science: general
 - Visual arts.

Academic Path to Completion

Every CDP involves a specific combination of approved degree programs. The CDP requirements build on those of the two separate degree programs. Each CDP has a unique pattern of academic activity year by year.

Year	Curricular Path	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA program requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. 	<ul style="list-style-type: none"> • 19.0 FCEs in undergraduate courses, including all requirements for the major in English, minor in Education and Society, and a second minor selected to fulfil the MT admission requirements of a second teaching subject. <ul style="list-style-type: none"> ○ This includes a minimum of 6.0 FCEs as part of the English major requirements in the in the first teaching subject, and a minimum of 3.0 FCEs in the second teaching subject. • Courses required for the minor in Education and Society include: PSY100H1, JSV200H1, JSV201H1, JSV202H1, VIC360H1, VIC360Y1, VIC362H1, one of VIC361H1, VIC363H1, or a 300/400-level course related to Education and Society. • CTL 7001H and CTL 7009H, to be taken in Year 4, and which is double counted towards the program requirements for the HBA and MT programs.
5	<ul style="list-style-type: none"> • Remaining courses from Year 1 of the MT program 	<ul style="list-style-type: none"> • 4.5 FCEs of Year 1 MT program requirements
6	<ul style="list-style-type: none"> • Remaining courses from Year 2 of the MT program 	<ul style="list-style-type: none"> • 4.5 FCEs of Year 2 MT program requirements

*The MT has three concentrations: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific

requirements vary based on which concentration is selected. For details, see the MT calendar entry [link].

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Honours Bachelor of Arts in English Program, Faculty of Arts and Science

Web: www.english.utoronto.ca

Email: english@chass.utoronto.ca

Minor in Education and Society Program, Victoria College

Web: www.vic.utoronto.ca/students/academics/education.htm

Email: pavi.chandrasegaram@utoronto.ca

Master of Teaching Program, Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

9 Consultation

This proposal is the product of extensive consultation between the Dean's Offices of the Faculty of Arts and Science and the Ontario Institute for Studies in Education, the Master of Teaching program, and Victoria College.

This proposal document captures the curricular arrangements of the Combined Degree Program. The specific arrangements between OISE and FAS are outlined in the appended MOU.

10 Governance Process

Steps	Approval
Development of proposal in close consultation between Dean's Offices	<ul style="list-style-type: none"> • Associate Dean, Programs, OISE • Vice-Dean, Graduate Education & Program Reviews, FAS • Associate Dean, Undergraduate, FAS
Consultation with Provost's Office	<ul style="list-style-type: none"> • Office of the Vice Provost, Academic Programs • Provost's Advisory Group
	<p>Approval by units – OISE:</p> <ul style="list-style-type: none"> • CTL Council: January 18, 2016 • OISE Academic Programs Committee: January 29, 2016 • OISE: Faculty Council: February 17, 2016 <p>Approval by units – FAS:</p> <ul style="list-style-type: none"> • FAS Undergraduate Curriculum Committees (Humanities, Social Sciences, Sciences): February 8, 2016 and February 12, 2016 • FAS Faculty Council: February 24, 2016
Submission to Provost's Office	
Report to AP&P (by P.O.)	
Report to Ontario Quality Council (by P.O.)	

Appendix A Intermediate/Senior Teaching Subject Prerequisites – Master of Teaching, 2016-17

Applicants who apply to the Master of Teaching Program must specify which concentration and corresponding teaching subject(s) they would like to apply for.

A course will be counted as a prerequisite toward your teaching subject(s) chosen if you have completed and received credit for the course or if you can prove you are currently enrolled in the prerequisite course on your transcript. Note that the course you are enrolled in must be completed before the start of the Master of Teaching Program.

Intermediate/ Senior Concentration (I/S)

Applicants who apply to this concentration will be eligible to teach children from grades seven to twelve. Please note that you must select **two** teaching subjects from the list below. Please ensure that you have the required number of courses in the subjects listed below prior to applying to this concentration.

Important Notes:

- Applicants may choose only one of Music-Instrumental **or** Music-Vocal, not both
- If candidates select two science teaching subjects, they must have a minimum of 10 full-year university courses in the sciences and these must include the prerequisite courses for each of the two science teaching subjects.

Intermediate/Senior Teaching Subjects & Prerequisites	
Teaching Subject	Prerequisite
English (First Language)	Six full-year university courses in English if selected as your first choice teaching subject, or three full-year university courses if selected as your second choice teaching subject
History	<p>Six full-year university courses in History if selected as your first choice teaching subject, or three full-year university courses if selected as your second choice teaching subject.</p> <ul style="list-style-type: none"> • Up to 1 full-year course in Political Science, Philosophy, or subject-specific history such as Art History or Music History, may be counted towards this prerequisite.

Religious Education	Six full-year university courses in Theology or Religious Studies if selected as your first choice teaching subject, or three full-year university courses if selected as your second choice teaching subject. <i>(This course is primarily intended to prepare teachers of Religious Education in Roman Catholic Secondary Schools)</i>
Mathematics	Six full-year university courses in Mathematics if selected as your first choice teaching subject, or three full-year university courses if selected as your second choice teaching subject <ul style="list-style-type: none"> • Up to 1 full-year course in Statistics may be counted towards this prerequisite
Science - Biology	Six full-year university courses in Science, with a minimum of four full-year courses in Biology <i>(regardless of whether it is the first or second choice teaching subject)</i> <ul style="list-style-type: none"> • Biochemistry is accepted as Chemistry or Biology • Courses in Botany, Zoology, and life sciences such as Anatomy, Physiology, Immunology, and Genetics are accepted as Biology • Psychology courses are not accepted towards this prerequisite
Science - Chemistry	Six full-year university courses in Science, with a minimum of four full-year courses in Chemistry <i>(regardless of whether it is the first or second choice teaching subject)</i> <ul style="list-style-type: none"> • Biochemistry is accepted as Chemistry or Biology
Science - Physics	Six full-year university courses in Science, with a minimum of four full-year courses in Physics <i>(regardless of whether it is the first or second choice teaching subject)</i> <ul style="list-style-type: none"> • Astrophysics and Geophysics are acceptable
Science - General	Psychology courses are not accepted towards this prerequisite. Six full-year university courses in Science, with a minimum of one full-year course in each area of Biology, Chemistry, and Physics <i>(regardless of whether it is the first or second choice teaching subject)</i>

Social Science - General	Six full-year university courses in any of Psychology, Sociology or Anthropology if selected as your first choice teaching subject, or three full-year university courses if selected as your second choice
Music-Instrumental	<p>Six full-year university courses in Instrumental Music if selected as your first choice teaching subject, or three full-year university courses if selected as your second choice teaching subject.</p> <ul style="list-style-type: none"> • Applicants may choose only one of: Music-Instrumental or Music-Vocal
	<p>Six full-year university courses in Vocal Music if selected as your first choice teaching subject, or three full-year university courses if selected as your second choice teaching subject.</p> <ul style="list-style-type: none"> • Applicants may choose only one of: Music-Instrumental or Music-Vocal
Health and Physical Education	Six full-year university courses in Health and Physical Education if selected as your first choice teaching subject, or three full-year university courses if selected as your second choice teaching subject.
French (Second Language)	<p>Six full-year university courses in French and demonstrated written and oral proficiency (<i>regardless of whether it is the first or second choice teaching subject</i>).</p> <ul style="list-style-type: none"> • If admissible to the program, applicants who select French as a Second Language as a teaching subject must demonstrate oral and written proficiency in French prior to registering in the program through testing administered at the time of admission. Applicants who fail to demonstrate proficiency will be deemed to have NOT satisfied the prerequisite for the French teaching subject even if they have the required number of academic courses. Refer to the OISE Proficiency Test in French & International Languages (OPTFIL) for detailed information about the test.

**Not all teaching subjects may be offered in a given year. OISE reserves the right to cancel courses for which enrolment or resources are insufficient.*